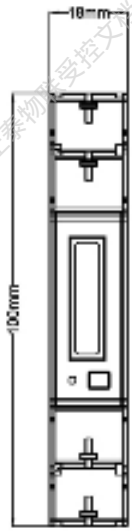
DDSU666
Smart Meter
Quick Guide

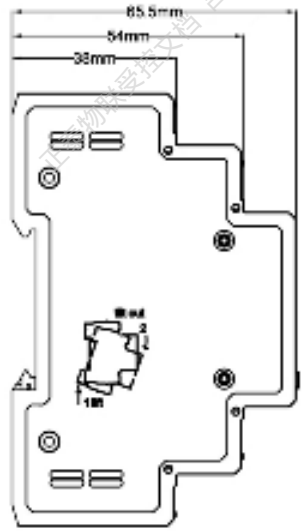
Issue: 110-01
Date: 2024-12

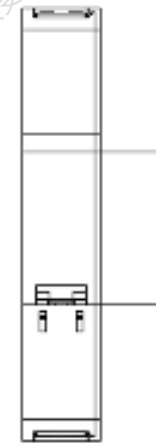
1 Product Description

1.1 Outline and mounting dimensions

Model	Wiring Method	modulus	Dimensions (L*W*H) mm	Suttle(kg)	Rail dimension
DDSU666 Series	Direct connection	1	100×18×65.5	About 0.08	DIN35 standard guide rails







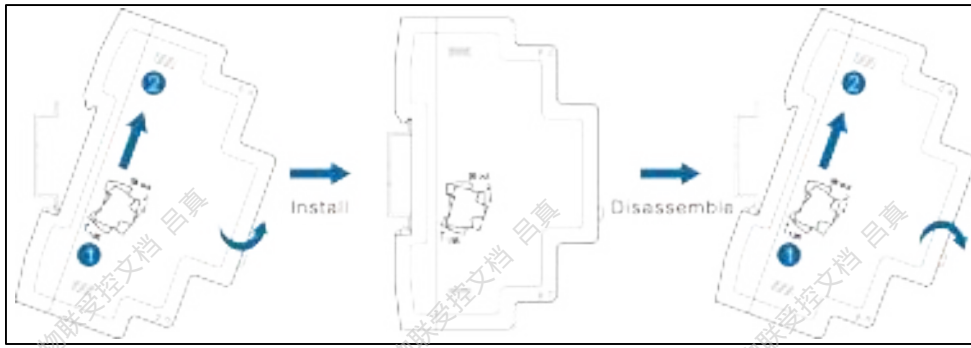
NOTE

The unnoted tolerance is ±1mm;
The appearance, size and information are subject to actual objects.

1.2 Product performance specifications

Model	DDSU666
Current specification	0.25-5(80)A
Access method	Direct connection
Nominal voltage	220V…240V
Frequency	50/60Hz
Current measuring range	0~80A
Voltage measuring range	176V~253V
Accuracy class	Class B(Class 1)
Power grid system	single phase
Baud rate	1200bps/2400bps/4800bps/9600bps(default 9600bps)/ 19200bps/115200bps
Temperature	-25℃~+55℃(nominal),-40℃~+70℃(ultimate)
Way to install	Rail mounting
Authentication	CE,RCM,MID

2 Install DDSU666



3 Installing cables

3.1 Prepare Cables

- **0.25~5(80)A wiring – Direct connection**

Cables	Port	Port number	Type	Conductor Cross-sectional Area Range	Outer Diameter	Source
Voltage and Current Cable	N/UN	3	Multi-core Outdoor Copper Cable	0.25mm^2~1.5mm^2	4mm~11mm	Prepared by the customer
	L/UL、I*	1		25mm^2	10mm	
	I	2				

- **Communications cable**

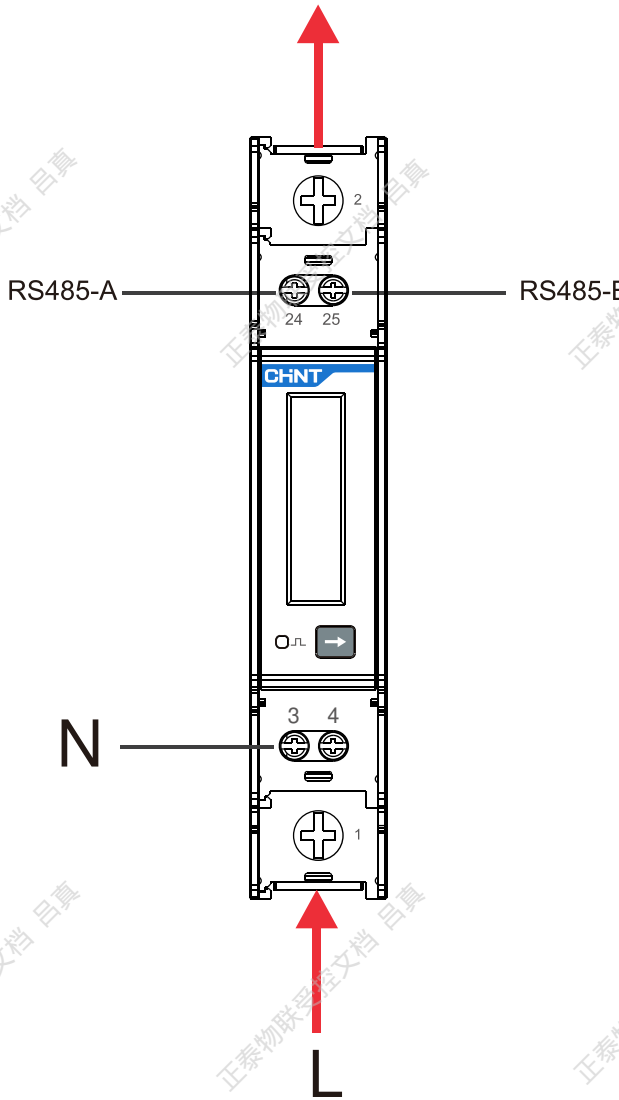
Cables	Port	Port number	Type	Conductor Cross-sectional Area Range	Outer Diameter	Source
Communications cable (advise)	RS485_A	24	Two core outdoor twisted-pair shielded wire	0.25mm^2~1.5mm^2	4mm~11mm	Prepared by the customer
	RS485_B	25				

NOTE

The maximum torque for terminal screws 1, 2 ,3is 1.7 N·m, and the recommended torque is 0.9 N·m to 1.1 N·m. The maximum torque for terminal screws 24 and 25 is 0.4 N·m, and the recommended torque is 0.15 N·m to 0.25 N·m.

3. 2 Wiring Diagram

- **Direct connection**



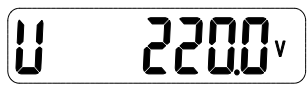
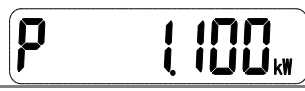
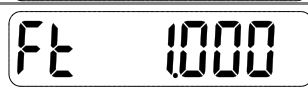
CAUTION

1. Before connecting cables, ensure that the Smart Meter is not damaged in any way.
2. Please ensure that the grounding wire is securely installed.
3. Before powering on, please ensure that the wiring is correct.

4 Displays project and parameter Settings

4.1 Display

When the meter is powered on, it will display the software version number and CRC check code. Software Version:V104,CRC check code:0x55d7. The key is used to switch the display interface.

No.	Display Interface	Instruction
Display when power on		
1		Software version:V104
2		CRC check code:0x55d7
Auto display		
1		Means the combined active total electrical energy, the unit is “kWh”, the left picture is 2.200kWh.
2		the current display voltage is U, the unit is “ V”, the left picture is U=220.0V.
3		the current display current is I, the unit is “A ”, the left picture is I=5.000A.
4		the current display is the active power P, the unit is “kW”， the left picture is P=1.100kW.
5		the current display is the power factor Ft, the left picture is Ft=1.000.
6		the current display is frequency F, the left picture is F=50.00Hz.
7		the current communication protocol is Modbus.
8		the current communication address of Modbus is 1.
9		Represents 8 data bits, no effect bit and one stop bit of the current communication protocol.
10		the current communication baud rate is 9600.

4.2 Parameter setting operation example

Description of pressing key:As shown in the following flowchart, long press the button and lift it to display the screen to enter the Setting ModBus address screen. Press the button again to modify the ModBus address. The address range of the button can be set to 1-247.

NOTE

Communication parameters are configured for the smart power sensor prior to delivery. If the communication is abnormal, check and set parameters.

5 Diagnosis, analysis and troubleshooting of common faults

Fault phenomenon	Reason analysis	Elimination
No display after the instrument being powered on	Incorrect wiring mode; Abnormal voltage supplied for the instrument	1.If the wiring mode is incorrect, please connect based on the correct wiring mode (see the wiring diagram). 2.If the supplied voltage is abnormal, please supply the voltage on the instrument specification. If this is not the problem above, contact your local supplier

6 Warranty and Service

The manufacturer implements three guarantees for product quality. Within 18 months from the date of delivery, if the user fully complies with the provisions of this manual and the factory seal is still intact, the instrument is found damaged during use, and the company is responsible for free repair or replacement.

7 Environmental

Dear customer:

Please help us do one thing, when this product at the end of its life, in order to protect our environment, please do a good job of recycling the product or its parts and materials. Please also dispose of materials that cannot be recycled. Thank you very much for your cooperation and support.

8 Statement

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9 Manufacturer Information

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